



## Gulf of Mexico Harmful Algal Bloom Bulletin

3 November 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: November 3, 2005

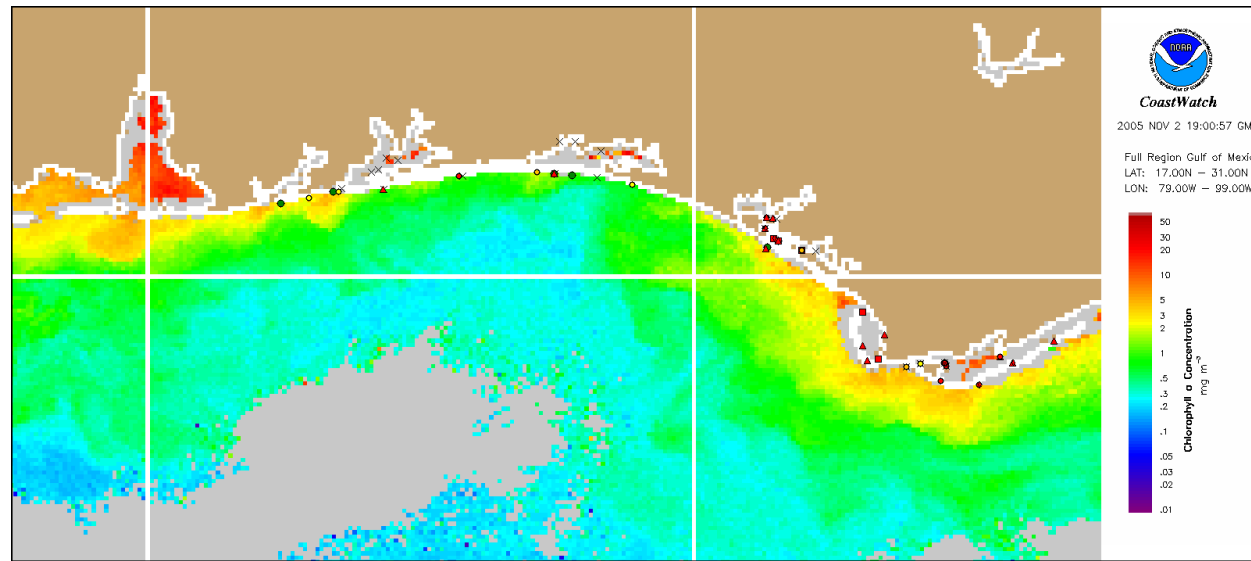
**Conditions:** Harmful algal blooms have been identified in patches in Levy, southern Pinellas, Sarasota and southern Collier counties. A second bloom has been identified in patches along the Florida panhandle and Alabama from Franklin County to Mobile County. None to very low impacts are expected in Franklin, Levy, Sarasota and Collier Counties through Monday. Low to moderate impacts are possible in Bay County on Friday and Saturday followed by very low impacts on Sunday and Monday. Dead fish have been reported in Okaloosa, Bay, and Hernando counties over the past few days. Dead fish smell, while unpleasant, doesn't produce the same respiratory irritation as harmful algal blooms.

**Analysis:** The bloom persists in patches along Florida's panhandle. Chlorophyll concentrations have decreased overall offshore of Bay county ( $<3.5 \mu\text{g/L}$ ). The wind transport model indicates that 35-60 km of westward transport may have occurred since the last bulletin. Variable winds through Monday will maintain bloom locations. Easterlies today may increase reports of dead fish. Onshore winds on Friday and Saturday may increase respiratory impacts. Impacts will decrease on Sunday and Monday.

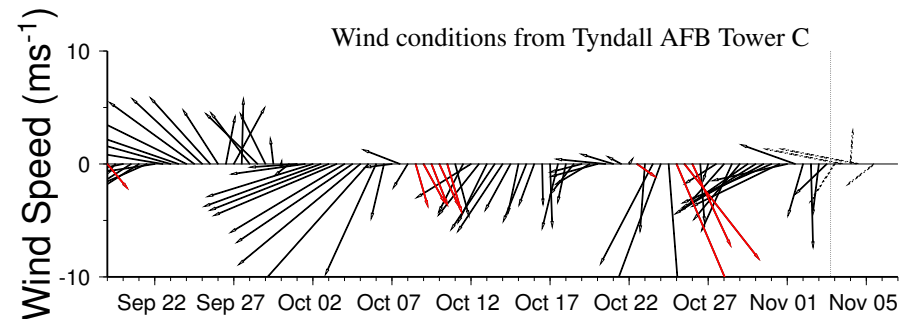
~Fenstermacher, Bronder

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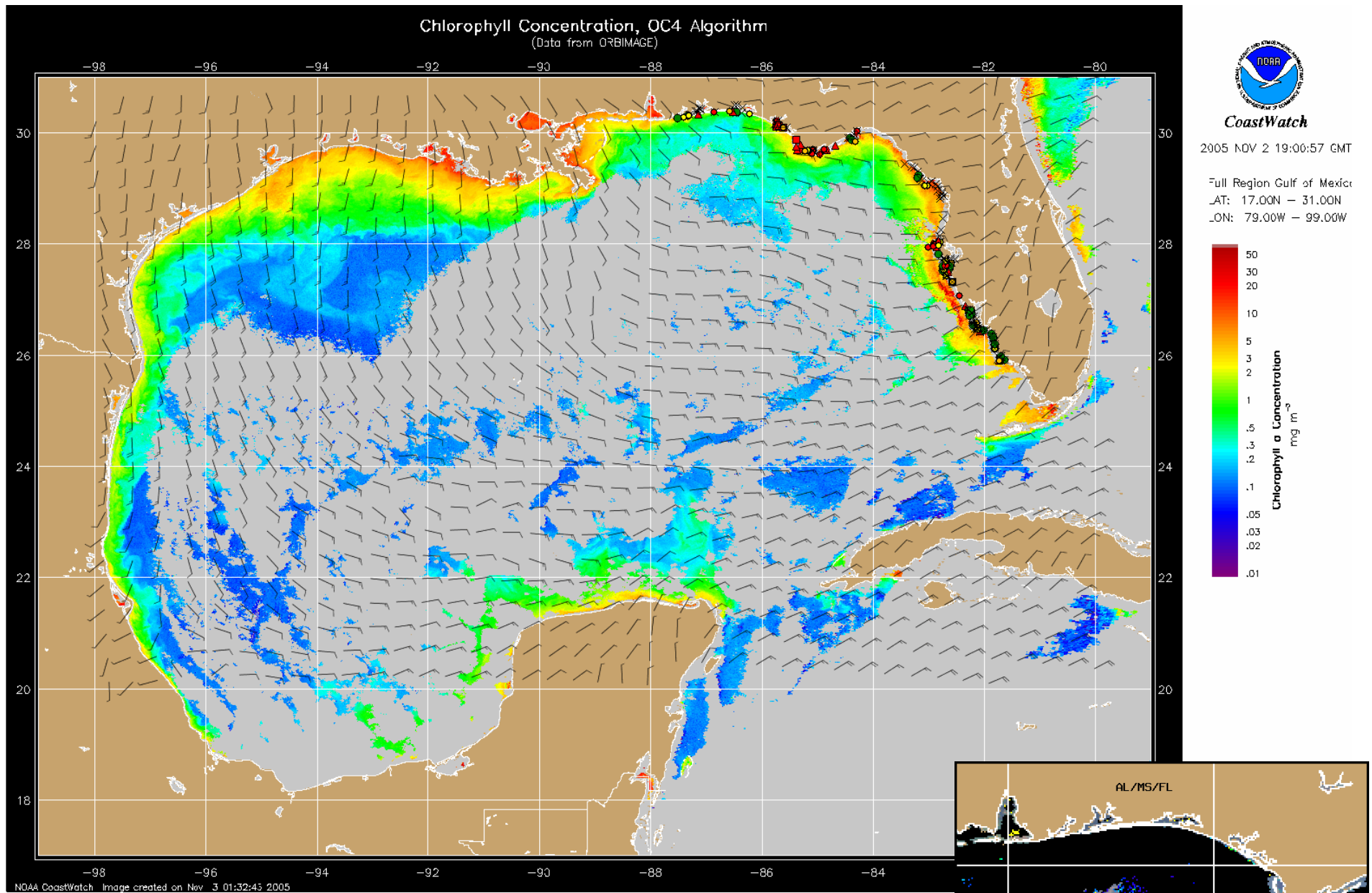


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

NW Florida: Easterlies today followed by southeasterlies Friday and Saturday (5-15 knots; 3-8 m/s). Northerlies on Sunday followed by northeasterlies on Monday (5-10 knots; 3-5 m/s).



Chlorophyll concentration from satellite and forecast winds for November 4, 2005 12Z with cell concentration sampling data from October 19, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis)